

L# ANSWER 84 OF 104 CAPLUS COPYRIGHT 2003 ACS on STN

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TI 2-Acyloxy-1,1,2,3,3-pentahydroperfluoroalkanamine \*\*\*betaines\*\*\*

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SO Jpn. Kokai Tokkyo Koho, 13 pp.

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PI JP 56122336 A2 19810925 JP 1981-11770 19810130

JP 03051458 B4 19910806

JP 03246262 A2 19911101 JP 1990-100137 19900416

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AB The title \*\*\*betaines\*\*\*  $\text{RCH}_2\text{CH}(\text{O}_2\text{CR}_1)\text{CH}_2\text{N}^+\text{R}_2\text{R}_3(\text{CH}_2)_m\text{CO}_2^-$  (R = C4-20

\*\*\*perfluoroalkyl\*\*\*; R1 = C1-4 alkyl; R2, R3 = C1-4 alkyl, C1-4 alkenyl, or NR2R3 = N-heterocycle; m = 1-4) were prepd. For example,  $\text{RCH}_2\text{CHICH}_2\text{OH}$  (R = C4-12 \*\*\*perfluoroalkyl\*\*\* ) were treated with NaOH and KOH and then Me2NH

[124-40-3] to give 92.4%  $\text{RCH}_2\text{CH}(\text{OH})\text{CH}_2\text{NMe}_2$  (R = C4F9 4.0, C6F13 54.0, C8F17 34.4, C10F21 6.0, C12F25 1.6%) which were acetylated and treated with  $\text{ClCH}_2\text{CO}_2\text{Na}$  [3926-62-3] in the presence of KI to give a \*\*\*betaine\*\*\* mixt. with surface tension 17.4, 19.3, and 36.0 dyne/cm at 0.1, 0.01, and 0.001% concn. in aq. solns., resp.

IC C07C101-12; C07D295-14; C11D001-90

DT \*\*\*Patent\*\*\*

LA Japanese

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